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SAFETY TIPS

ADVISORY: READ BEFORE USING YOUR NES/SUPER NES

A very small portion of the population may experience epileptic seizures when viewing certain kinds of flashing lights or patterns that are commonly present in our daily environment. These persons may experience seizures while watching some kinds of television pictures or playing certain video games. Players who have not had any previous seizures may nonetheless have an undetected epileptic condition. We suggest that you consult your physician if you have an epileptic condition or if you experience any of the following symptoms while playing video games: aftered vision, muscle twitching, other involuntary movements, loss of awareness of your surroundings, mental confusion and/ or convulsions.

WARNING: DO NOT USE WITH FRONT OR REAR PROJECTION TV

Do not use a front or rear projection television with your Nintendo Entertrainment Systema ("NES") and NES games. Your projection television screen may be permanently damaged if video games with stationary scenes or patterns are played on your projection television. Similar damage may occur if you place a video game on hold or pause. If you use your projection television with NES games, Nintendo will not be liable for any damage. This situation is not caused by a defect in the NES or NES games; other fixed or repetitive images may cause similar damage to a projection television. Please contact your TV manufacturer for further information.

- Always turn the power off before inserting or removing the Game Pak from your NINTENDO® ENTER-TAINMENT SYSTEM."
- This is a high precision game. It should not be stored in places that are very hot or cold. Store it at room temperature. Never hit or drop it. Do not take it apart.
- Avoid touching the terminal connectors. Keep them clean by inserting the Game Pak in its protective storage case.
- Use of thinners, solvents, benzene, alcohol and other strong cleaning agents can damage the Game Pak.

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Office of the Director

After careful review of top aerospace candidates and current personnel, the Council congratulates you on your outstanding training performance and is pleased to inform you of your status elevation to Shuttle Commander, effective immediately.

You are hereby enjoined to lead a series of six Alpha Priority missions vital to our nation's welfare, U.S. Soviet relations, and the continuation of the space program itself.

Your orders are contained within this document, which you should read and understand completely before proceeding. You are reminded that discussion of Shuttle operations with persons not cleared by Security Directive 3.33.0 is a breech of the Secrecy Act. Failure to comply with this regulation will result in swift military prosecution.

The Council charges you with sole responsibility for the success of these missions and the safe return of your flight crew and Shuttle.

Good luck, Commander.

PRE-FLIGHT PROCEDURES

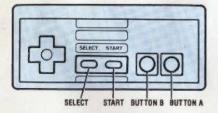
- 1. Make sure the power switch is OFF.
- Insert the Space Shuttle Project" CARTRIDGE as described in your NINTENDO® ENTERTAINMENT SYSTEM" manual.
- 3. Turn the power switch ON.

TO START: Push the START BUTTON on the game controller.

THE CONTROL PANEL

The following illustration demonstrates the control keys on your Council-approved NINTENDO® ENTERTAINMENT SYSTEM® controller. All shuttle operations are performed via this controller. Throughout this manual we will refer to these controls by the names indicated here.

CONTROLLER:



CONTROLLER KEYS:



SECURITY CHECK

Intelligence reports indicate renewed espionage activity in the field. Be advised of possible hostile infiltration. Class A security measures will now be enforced. You are expected to thoroughly familiarize yourself with all new entry procedures—deviation from these procedures will be considered sabotage and will be dealt with severely.

ENTRY PROCEDURES

- Memorize Security Code Look at the numbers displayed on the LED read-out. This is your security code. Memorize or write down this four-digit number. Also memorize the name of the shuttle craft that is displayed below the number.
- Enter Name Use the CONTROLLER KEYS to move the cursor. Press BUTTON A to select a letter. To erase a mistake press BUTTON B. When you have completed your entry, select "END."
- Clear your Code Once your name is entered, your code will highlight. Immediately after, the numbers on the read-out will begin to cycle independently. (This is why it is vitally important that you take a good look at the number before you select "END.")

 Enter your Security Code Starting with the first digit, press BUTTON A when the correct number is displayed. Repeat for all 4 digits.

Note: If you are continuing your hight history from previously flown missions, you must enter the Top Secret security code you were issued at the end of those missions (see the Council Advisory below).

- Confirm Shuttle Craft When the name of the craft originally shown (in Step 2, above) is displayed, press BUTTON A.
- 6. Start or Repeat If the sign-in procedure is successful, you will be cleared by the security mainframe and given admittance to the launch pad. Failure to sign in correctly will result in 4 more opportunities to do so. Failure after the fourth effort will alert security forces.

COUNCIL ADVISORY: Upon successful completion of each mission, Snattle Security will resure you a personalized Top Secret entry code. Use of this code on future lights will enable you to bypess previously-completed missions.

MISSION REGISTER

You have been assigned a total of six missions, each of increasing technical complexity. The Council expects your abilities will improve with experience.

MISSION 1-Launch Satellite

MISSION 2-Begin Space Station Construction (Initial Phase)

MISSION 3-Retrieve and Re-launch Satellite

MISSION 4-Continue Space Station Construction (Second Phase)

MISSION 5-Rescue Cosmonaut

MISSION 6-Complete Space Station Construction (Final Phase)

OPERATIONAL STAGES

The following stages and procedures comprise each of the six missions. Stages 1, 2, and 4 are pre-launch, lift-off, and reentry operations; Stage 3, Extravehicular Activity, consists of a particular mission assignment. All four stages must be completed in their entirety for a mission to be deemed successful.

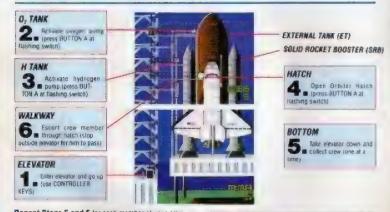
FUELING/BOARDING: STAGE 1

It is essential you perform these operations in order to prepare the craft for lift-off and to ensure a timely departure.

OBJECTIVES

- Activate oxygen pump
- Activate hydrogen pump
- Open orbiter hatch
 Escort crew into orbiter
- Once this phase is complete, Stage 2 will commence.

STAGE 1



Repeat Steps 5 and 6 for each member of your crew When the message "GÉT IN COMMANDER" appears, your entire crew is aboard the craft and 4 is new time for you to embark

COUNTY ADMISSING In each wasper the fueling and Boarding Single is forced in Mussion 1 are learned to complete ad operations, taker missions have different from finish.

LIFT-OFF: STAGE 2

Successful completion of this phase will ensure the craft's ability to break gravitational pull and enter orbit.

OBJECTIVES

- Navigational tracking
- Aoll 120°
- Throttle down to 65%
- Throttie up to 100%
- Sorid Rocket Booster (SRB) Separation
- Thrattle cown to 65%
- Main Engine Cutoff
- External Tank (ET) Separation
- Fire Orbital Maneuvering System (OMS) #1
- Fire Orbital Maneuvering System (OMS) #2

To perform the above operations you must become familiar with the computerized **Shuttle Guidance Systems** displayed on the Control Panel The next section explains these systems in detail

SHUTTLE GUIDANCE SYSTEM



The computerized Shuffle Guidance System controls your craft's operations during Uff off. Reentry and Landing Each of the functions run by the system will appear on the CRT of the Shuffle Control Panet. You will also see a promot that rapels the function you are being asked to perform

Read and study the function descriptions below. Each mission will require different combinations of these functions due to varying crossal coordinates. Refer back to this fish whenever necessary.

SHUTTLE FUNCTION DISPLAYS FLIGHT PROCEDURE DISPLAY



Overflowing L'Estitur ROLL SPB SEP MESO ET SEP Used auroig Readly for BOORS SITURN TABIA GEAR

THRUST INDICATOR



Move the (hrottle (bottom arrow) to match the desired thrust indicated by the computer (top arrow) (Use RIGHT and LEFT controller sees.)

Used during Lift eff for THRUST, OMS #1, OMS #2 Used during Reenay for THRUST BRAKE

COUNCIL ADVISORY: When preparing to response THALL Figuring great that was the May Hamber way. They in the page tips the reducational part was plant the accounted that's

TEST INDICATOR



Outplicate the indicator light sequence given by the computer.
(Use the RIGHT and LEFT control for keys to move to a light use BUTTON A to lock in your choice.)

Used in Lift off and Reentry for VALVES adjustment

VERNIER INDICATOR



Lised in Lift off and Roentry for VERINIER adjustment

Council Advisory. Well for the moving for A. size clean better attempting 4, these year array.

GIMBAL INDICATOR



Used during citt off and Reentry for GIMBAL adjustment

TRACKING INDICATOR



Use the UP and DOWN comroller keys to keep the slow-moving tracking indicator dut as close to the computer generated wave time as possible.

tilsed guring Cift of for Navigational TRACKING

MANEUVER INDICATOR



Stop needle here (Press the appropriate controller key JUP, DOWN RIGHT LEFT; when prompted by the computer)

Used during Reentry for IMM, PITCH, ROLL, FLARE

ALIGNMENT INDICATOR





Align the moving shuttle mage to overlap the stationary computergenerated shuttle mage

(Press and hord down RIGHT and LEFT controller keys press BUTTON A quickly to lock in when overlapped images hash.)

Used during Reentry for, Navigational ALIGNMENT

EXTRAVEHICULAR ACTIVITY: STAGE 3

THE MISSIONS

This stage consists of the actual mission you are required to perform. Before proceeding to the **Mission Briefing** section, be sure you have a thorough understanding of the following life support components.





H



LIFE SUPPORT: OXYGEN

Maintain close observation of your oxygen levels during extravericular activity. You will use 0_s at a constant rate during spacewalk maneuvers. When your 0.5 supply reaches probably low revols, find and build the emergency 0 tanks. These can be found in various locations attached to the Space Station, or freestanding in space.

MMU POWER REVS

The power supply contained by your Manned Maneuvering Unit (MMU) is limited and is sewere; affected by astemid and satellite coll sions. Check the number displayed beneath your Q, level to see how many power revs are available to you. To replenish this supply and gain evita revs, locate and touch the moving energy modules.

MISSION 1: SATELLITE LAUNCH

OBJECTIVES

- Release satellite from Cargo Bay
- Place satelfile into orbit
- Complete task before full depletion of O supply

COUNCIL ADVISORY: De sure le position me saletire et a sufficient distance from the other valenties that great Earth. This was ensure that it has enough time to open its solar pages and organ its orbit between SWEEK NEWS NO.

EARTH

Use BIGHT EFT UP maneuver satel te mu de cilidar geth around the Earth nationer. avoiding offer salehiles



Press BUTTOM A to minuse satelline into orbid.

CARGO BAY

Press BUTTON A to release saterire from Cargo Bay

Nintendo ENTERTAINMENT SYSTEM

MISSION 2: SPACE STATION CONSTRUCTION (INITIAL PHASE)

OBJECTIVES

- Release Manned Maneuvering Unit (MMU) from Cargo Bay
- Carry Space Station building component to construction zone
- Install building component where needed (see iflustration)
- Return MMU to shuttle Caron 8av.
- Repeat for all building components in Cargo Bay.
- Monitor exygen levels-replenish 0, supply as needed at attached 0 tanks

MARLI

Press BUTTON A to release MIMILI Irom Cargo Bay

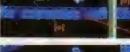
SPACE STATION

Use RIGHT/LEFT UP/ DOWN controller keys to move transact Space Station

CARGO BAY

Return here for additional in butches ill balons ill components to complete this phase of construction.







SATELLITE

Avoid cribiting satellites

CONSTRUCTION ZONE

Augr your comparent with Inther Source Status computents. Search for areas, trait are massing precess. When properly positivied the component will inclu mip place

COUNCIL ADVISORY: For manimum efficiency during construction, the Opuney' recommends a sion and cautious page. Such restrains offers maintain insidility necessary for proving satellite avoidance

MISSION 3: SATELLITE RETRIEVAL AND RE-LAUNCH

OBJECTIVES

- Release Manned Maneuvering Unit (MMU) from Cargo Bay
- Retrieve orbiting salellite
- Return satellite to Cargo Bay for repairs

- Return satellite to orbit
- Return to shuttle Cargo Bay
- Monitor oxygen levels—complete task before depletion of O₂ supply

MMU

Press BUTTON A to release

CARGO BAY

5. Enler slowly with salebile

- 6. Return satellite to its
- 7 Return MMU to shuttle.



2 USA PIGHT LEFT UP-DOWN controller keys to move

ASTEROID

August agricious

SATELLITE

Calch satellite as in orbits

Early and return it to

Caros Bay

COUNCEL ADVISORY: Taking a position with a full mem of Earth allows the maximum institute recessary for asteriord aroutance

MISSION 4: SPACE STATION CONSTRUCTION (SECOND PHASE)

Forlow the instructions given for **Mission 2** on page 18. Note that this phase takes **6** construction components to complete

COSINCE ADVISORY. Like light-integer senterm of the Space Station and the integrated integrated for phase of continuous discount integration about their senters which are denoted by their pursuit and surface.

MISSION 5: SOVIET COSMONAUT RESCUE

OBJECTIVES

- Release Manned Maneuvering Unit (MMU) from Cargo Bay
- Perform spacewalk loward stranded cosmonaut



Press BETTON A to release

SOYEZ CRAFT

3 Wyw. MMU to Sowel craft and grasp scsmonaut



- Rescue cosmonaul
- Return MMU and cosmonaut to shuttle Cargo Bay
- Monitor oxygen supply-replenish as necessary by sustaining contact with freestanding 0, tanks





CARBO BAY

Maneuver back to shuftle and enter Cargo Bay with commonaut

MISSION 6: SPACE STATION CONSTRUCTION (FINAL PHASE)

Follow the instructions given for **Mission 2** on page 18. This last phase of construction requires you to venture foward the most freacherous areas of the Space Station. Note that this phase takes **0** construction components to complete.

COUNCIL ADVISORY: Due to the time constraints of this mission and the ordinant functions list one of the path down behavior to Space (Status, the Council has control usualisation of a harmon, therefore to the Control has control used to the council and the facts and taxoniate space reliant to the control time material state native readmins of the status. Republishly, recalled and status of this implicitation was underweable for the Council of press name.

REENTRY: STAGE 4

In this stage you must perform these operations to reenter Earth's almosphere and touch down

- Close Cargo Bay doors
- Turn orbiter around (YAW and thrust)
- Deorbit burn to slow down
- Prich extriter nose up
- Fall into Earth's atmosphere
- Perform S-turn
- M Approach runway
- Deproy landing gear
- Land and apply brakes

To complete the objectives listed above requires knowledge of the **Computer Guidance System** functions, obscribed on page 12-15. The display window will flash the action you are required to perform.

Remember—later missions include more complex computer functions due to more complicated mission objectives. Refer back to the Guidance System list and study if

GLOSSARY

CREW

COMMANDER

-Responsible for overall crew safety and flight execution.

MISSION SPECIALIST

Coordinates payload operations and performs scientific objectives.

PAYLOAD SPECIALIST PILOT Non-professional astronaut who is an expert on the payload to be deployed.
 Second in command: assists Commander.

ACRONYMS

ET

- External Tank (attached to the Orbiter bottom)

MECO

Main Engine CutOff
 Mission Elapsed Time

MMU

 Manned Maneuvering Unit (propellant device that attaches to astronaut for movement through space during extravehicular activity)

OMS SEP SRR -Orbital Maneuvering System (jet engines used to position the Orbiter in space)

- SEParation

-Solid Rocket Boosler (twin SRBs are located on either side of the Orbiter)

SSME — Space Shuttle Main Engine
STS — Space Transportation System

TAEM —Terminal Area Energy Management (process that conserves energy during reentry)

DEFINITIONS

CARGO BAY

DEORBIT BURN

-Area inside the large doors located on the top of the Orbiter.

The firing of the OMS engines to slow the Orbiter down to below orbital speed and facilitate reentry.

 Type of hinged attachment used for the rocket nozzles to allow multi-directional.

GIMBAL

ORBITER

- Equipment contained in the Cargo Bay specific to a particular mission.

PITCH

Up and down rotation of the Orbiter (nose to tail).
 Bottom to top rotation of the Orbiter (roof to landing gear).

VERNIER

—Small engine used for precise adjustments in Orbiter position.

YAW

---Side to side rotation of the Orbiter (right wing to left wing).



SPECIAL OFFER!

Ever wonder what the Space Shuttle astronauts do for food up there, miles and miles above the rearest restaurant? Well, we wondered too, and now we've got an answer we'd like to share with you.



Absolute Entertainment is proud to announce that it's obtained a limited quantity of **Astronaut Ice Cream**, that space-age taste sensation similar to the one enjoyed by real astronauts! This freeze-dried food product is made from the same ingredients found in regular ice cream. Eat it anywhere, anytime, without the usual ice cream mess. Pack it along when you go off to school, work, picnics, or even the beach—if never meltis!

Each Astronaut Ice Cream packet contains vanilla, chocolate, and strawberry flavors. To order, you must enclose both the Astronaut Ice Cream order form and the product Information Card found in your SPACE SHUTTLE PROJECT* game package. Cost per ice cream packet is \$3.00, postage and handling included. Order today while supplies on Earth last!

ABSOLUTE ENTERTAINMENT, INC.'S LIMITED 90-DAY WARRANTY

Absolute Elimination of the warrants to the adejand stall produces of the video game computer gargarant (Program's had be castadge | Castadge | on which the Program is emboded with be the later defects in materials and weldermarkly for a period of merely (SI) days from the day of purchase. If your Castadge becomes defected during that period, Absolute Exchanges (Six of Disposal Programs) and "Programs" of Disposal Programs (Six of Disposal Programs).

To replace a directive Contrology during the variantly period, mail the critical cartridge, proof of your purchase with the prochase size circled, a brief statement discribing the detect, and a large, self-addressed stamped circledge for

Worsely Officer

Absorute Entertainment, Inc.

PG Box 116 Gton Rock, New Jorsey 05/452

Tet (201) 653-1927

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COMPLIANCE WITH F.C.C. REGULATIONS

This suppress greates and use notic trappersy energy and if not recipied and used grappy, that is, in spiral accordated with the menulactive is establishment, may cause interference sets and believes in exception. This been type lested and followed in comply with the limits for a Class 8 complying place to accordance with the specialistics or successful of the followed in the spiral place of the spiral

-Recrient the mostwing arrennal

-Foliable the NES with respect to the epsiver

-Move the NES away form the receiver

-Plug the NES into a different outer so that the computer and receiver are on different circuits

If noncourse, the user should consult an experienced path-blank on technical reaggestion. The user may find the following booket prepared by the Federal Communications Commission Heighter How to Merelly and Resolve Radio-TV Interformal Problems. This booket is available from the U.S. Generated Printing Drine, Reprinting on C 2040C. Stock has 044-040-06044.